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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

- (original) An abrasive article comprising
 - a backing having a major surface; and
- an abrasive coating on the major surface of the backing comprising at least 20% by weight of a superabrasive particle, wherein the abrasive coating is derived from an abrasive slurry comprising

superabrasive particles;

- a continuous phase; and
- a dispersant comprising a polymer having a molecular weight (Mw) of greater than 500 and an AV of greater than 4.5.
- 2. (original) The abrasive article of claim 1 wherein the abrasive coating is derived from an abrasive slurry comprising a dispersant comprising a polymer having a molecular weight (Mw) of greater than 1000.
- 3. (original) The abrasive article of claim 1 wherein the abrasive coating is derived from an abrasive slurry comprising a dispersant comprising a polymer having a molecular weight (Mw) of between about 3000 and about 4000.
- 4. (original) The abrasive article of claim 3 wherein the abrasive coating is derived from an abrasive slurry comprising a dispersant comprising a polymer having an AV of between about 5 and about 7.5.

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- 5. (original) The abrasive article of claim 1 wherein the abrasive coating is derived from an abrasive slurry comprising a dispersant comprising a polymer having a molecular weight (Mw) of between about 8000 and about 9000.
- 6. (original) The abrasive article of claim 5 wherein the abrasive coating is derived from an abrasive slurry comprising a dispersant comprising a polymer having an AV of between about 12 and about 13.
- 7. (original) The abrasive article of claim 1 wherein the abrasive coating comprises at least about 30% by weight of a superabrasive particle.
- 8. (original) The abrasive article of claim 7 wherein the abrasive coating comprises between about 30% by weight and about 80% by weight of a superabrasive particle.
- 9. (original) The abrasive article of claim 1 wherein the abrasive coating is derived from an abrasive slurry further comprising a binder precursor.
- 10. (original) The abrasive article of claim 9 wherein the abrasive coating comprises a binder.
- 11. (original) The abrasive article of claim 1 wherein the superabrasive particle is diamond.
- 12. (original) The abrasive article of claim 11 wherein the diamond has a particle size less than 2 micrometers.
- (original) An abrasive article comprising
 a backing having a major surface; and

an abrasive coating on the major surface of the backing comprising at least 20% by weight of a superabrasive particle, wherein the abrasive coating is derived from an abrasive slurry comprising

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superabrasive particles;

a continuous phase; and

a dispersant comprising a polymer having a molecular weight (Mw) of greater than 10,000 and an AV of greater than 1.0.

14. (original) An abrasive article comprising

a backing having a major surface; and

an abrasive coating on the major surface of the backing comprising at least 20% by weight of a superabrasive particle, wherein the abrasive coating is derived from an abrasive slurry comprising

superabrasive particles;

a continuous phase; and

a dispersant comprising a polymer having a molecular weight (Mw) of greater than 100,000 and an AV of greater than 0.

- 15. (original) The abrasive article of claim 14 wherein the abrasive coating is derived from an abrasive slurry comprising a dispersant comprising a polymer having a molecular weight (Mw) of greater than 150,000.
- 16. (original) An abrasive article comprising

a backing having a major surface; and

an abrasive coating on the major surface of the backing comprising at least 20% by weight of a superabrasive particle, wherein the abrasive coating is derived from an abrasive slurry comprising

superabrasive particles;

a continuous phase; and

a dispersant comprising a polymer having a molecular weight (Mw) of greater than 500 and a measurable total Amine Value.

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17. (original) A method of manufacturing an abrasive article comprising

coating an abrasive slurry comprising superabrasive particles, a continuous phase and a dispersant comprising a polymer having an average molecular weight (Mw) of greater than 500 and an AV of greater than 4.5 onto a backing, wherein the superabrasive particles comprise at least 20% dry weight of all solids in the slurry; and

solidifying the abrasive slurry.

- 18. (original) The method of claim 17 wherein the abrasive slurry is cured.
- 19 (New) An abrasive article comprising

a backing having a major surface; and

an abrasive coating on the major surface of the backing comprising at least 20% by weight of a superabrasive particle, wherein the abrasive coating comprises

superabrasive particles;

a continuous phase; and

a dispersant comprising a polymer having a molecular weight (Mw) of greater than 500 and an AV of greater than 4.5.